

Natural Sciences NTSC 10200 -- Spring 2005

Rocky Kolb

<http://home.fnal.gov/~rocky/NS102>

Lectures: KPTC 106, 10:30-11:50am, Tuesday & Thursday

- **The Course** consists of lectures and a laboratory/discussion session. In addition to the lecture, every student must be registered for a laboratory/discussion section.

SECTION	TA	LAB/DISCUSSION
1	Tim Donaghy LASR 110 702-7785 quinn@uchicago.edu	Monday 1:30 – 3:20pm KPTC 312
2	Felipe Marin AAC 018 702-5963 fmarinp@uchicago.edu	Monday 3:30 – 5:20pm KPTC 312
3	Erwin Lau AAC 018 702-5963 ethlau@uchicago.edu	Monday 7:00 – 8:50pm KTPC 312
4	Alberto Vallinotto AAC 042 834-4670 avallino@uchicago.edu	Tuesday 1:30 – 3:20pm KPTC 312
5	Alberto Vallinotto AAC 042 834-4670 avallino@uchicago.edu	Tuesday 3:30 – 5:20pm KPTC 312
6	Andrew Hill AAC 024 702-5778 arhill@uchicago.edu	Tuesday 7:00 – 8:50pm KTPC 312

SECTION	TA	LAB/DISCUSSION
7	Tim Donaghy LASR 110 702-7785 quinn@uchicago.edu	Wednesday 1:30 – 3:20pm KPTC 312
8	Erwin Lau AAC 018 702-5963 ethlau@uchicago.edu	Wednesday 7:00 – 8:50pm KPTC 312
9	Felipe Marin AAC 018 702-5963 fmarinp@uchicago.edu	Thursday 1:30 – 3:20pm KTPC 312
10	Andrew Hill AAC 024 702-5778 arhill@uchicago.edu	Thursday 7:00 – 8:50pm KPTC 312
11	Carlos Cunha AAC 022 702-9348 cunha@oddjob.uchicago.edu	Friday 1:30 – 3:20pm KPTC 312
12	Carlos Cunha AAC 022 702-9348 cunha@oddjob.uchicago.edu	Friday 3:30 – 5:20pm KTPC 312

Mr. Kurt Henriksen, kurt@oddjob.uchicago.edu, assigns sections. You should be assigned a section before 2pm Friday afternoon 4/1.

- The **Lab/Discussion Sections** will meet in KPTC 312. The sessions begin April 4 and end May 27.

➤ 4 April – 8 April	<i>The Moons of Jupiter (week 1)</i>
➤ 11 April – 15 April	<i>The Moons of Jupiter (week 2)</i>
➤ 18 April – 22 April	<i>The Temperature of the Universe (week 1)</i>
➤ 25 April – 29 April	<i>The Temperature of the Universe (week 2)</i>
➤ 2 May – 6 May	<i>Geometry of the Universe (week 1)</i>
➤ 9 May – 13 May	<i>Geometry of the Universe (week 2)</i>
➤ 16 May – 20 May	<i>TBA (week 1)</i>
➤ 23 May – 27 May	<i>TBA (week 2)</i>

- You will be assigned **Homework** every Tuesday, due the following Tuesday at the end of class. Homework is due at the beginning of class (not after class!). Late homework will not be accepted. The first assignment will be given March 29 and will be due April 5. Homework will count as 10% of the grade. Homework and exam answers will be posted on the class website.

- **My Office Hours** will be from 1:30 –2:30pm every Tuesday and Thursday in AAC 138. If you wish an appointment at any other time, please contact me.

- **Contact Information:** (773) 702-0597 (campus office); (773) 834-0393 (Jennifer Smith, my assistant on campus in AAC 140); (630) 840-4695 (Fermilab office); (630) 840-3758 (Liz Duty, my assistant at Fermilab); (630) 393-7058 (home number). My email address is rocky@rigoletto.uchicago.edu.

- **The AAC** is not easy to find. Because of the threat of terrorism, The Department of Homeland Security requires that we keep the doors to AAC locked at all times. To find my office in the AAC, you must enter the Research Institutes Building at 5640 South Ellis Ave and follow the signs to “AAC” or “Astronomy.”

- **Grades** will be based on homework, quizzes, the final exam, labs, and participation in the discussion section.

➤ Labs	20%
➤ Homework	10%
➤ Discussion	5%
➤ 21 April quiz	30% ? (only the highest quiz grade will count)
➤ 24 May quiz	30% ? (only the highest quiz grade will count)
➤ Final exam	35%

- **Make-Up Exams and Labs** will not be given. The final exam is required. Exams (including the final) count for 65% of the grade. The lowest quiz score will be dropped. If you miss both of the quizzes, the final exam will count for 65% of your grade.

- The **TAs** will schedule **Weekly Office Hours**.

- **Lab Manuals** or **Lab Notebooks** are not required.
- There are two required **Textbooks**:
 - *Blind Watchers of the Sky*, Kolb
 - *A Brief History of Time*, Hawking
- **Additional Reading** will occasionally be expected. Occasionally, material will be placed on reserve in Crerar and/or made available on the class website.
- **Suggested Reading** material is available in Crerar.
 - *The First Three Minutes*, Weinberg
 - *The Big Bang*, Silk
 - *The Little Book of the Big Bang*, Hogan
 - *Cosmology, The Science of the Universe*, Harrison
 - *Universe*, Kaufman
 - *Exploration of the Universe*, Abell
 - *The Physical Universe*, Shu
- The award-winning class **Website** will be <http://home.fnal.gov/~rocky/NS102/>.
- Before and after each class I will play celestially inspired music. Send your requests to rocky@oddjob.uchicago.edu.